AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (canceled)

2. (currently amended) A method of forming a semiconductor device having a bump electrode, the method comprising the steps of:

providing an aluminum contact pad on a substrate, at least a portion of the aluminum contact pad being exposed through a dielectric layer on the substrate;

forming an aluminum layer on the dielectric layer and the portion of the aluminum contact pad exposed through the dielectric layer;

forming a nickel-vanadium layer on the aluminum layer;

forming a titanium layer on the nickel-vanadium layer;

selectively forming a gold bump on the titanium layer at a location corresponding to the aluminum contact pad; and

etching the aluminum layer, the nickel-vanadium layer and the titanium layer using the gold bump as a mask wherein the gold bump is substantially unaffected during the etching step;

<u>said method further</u> The method as claimed in claim 1, further comprising, before the gold bump is formed on the titanium layer, the step of removing TiO or TiO₂ that may have been formed on the titanium layer.

3. (previously presented) The method as claimed in claim 2, wherein the removing step is conducted by treating the titanium layer with a cleaning medium.

4. (original) The method as claimed in claim 3, wherein the cleaning medium is HCl.

5-6. (canceled)

7. (currently amended) A method of forming a semiconductor device having a bump electrode, the method comprising the steps of:

providing an aluminum contact pad on a substrate, at least a portion of the aluminum contact pad being exposed through a dielectric layer on the substrate;

forming an aluminum layer on the dielectric layer and the portion of the aluminum contact pad exposed through the dielectric layer;

forming a nickel-vanadium layer on the aluminum layer;

forming a titanium layer on the nickel-vanadium layer;

selectively forming a gold bump on the titanium layer at a location corresponding to the aluminum contact pad; and

etching the aluminum layer, the nickel-vanadium layer and the titanium layer using the gold bump as a mask wherein the gold bump is substantially unaffected during the etching step;

wherein The method as claimed in claim 1, wherein said etching comprises utilizing an acidic solution as an etchant to etch the aluminum layer, the nickel-vanadium layer and the titanium layer without significantly affecting the gold bump being used as an etching mask.

8. (currently amended) A method of forming a semiconductor device having a bump electrode, the method comprising the steps of:

providing an aluminum contact pad on a substrate, at least a portion of the aluminum contact pad being exposed through a dielectric layer on the substrate;

forming an aluminum layer on the dielectric layer and the portion of the aluminum contact

pad exposed through the dielectric layer;

forming a nickel-vanadium layer on the aluminum layer;

forming a titanium layer on the nickel-vanadium layer;

selectively forming a gold bump on the titanium layer at a location corresponding to the aluminum contact pad; and

etching the aluminum layer, the nickel-vanadium layer and the titanium layer using the gold bump as a mask wherein the gold bump is substantially unaffected during the etching step;

wherein The method as claimed in claim 1, wherein said etching comprises utilizing HCl as an etchant to etch the aluminum layer, the nickel-vanadium layer and the titanium layer.

9-11. (canceled)